

Title (en)

Method and system for controlling a multivariable system with limits

Title (de)

Verfahren und Systeme zur Steuerung eines mehrfach variablen Systems mit Einschränkungen

Title (fr)

Procédé et système de contrôle d'un système à plusieurs variables avec des limites

Publication

EP 2492762 B1 20131002 (EN)

Application

EP 12157261 A 20120228

Priority

US 201113036914 A 20110228

Abstract (en)

[origin: EP2492762A1] A method and system for controlling a multivariable system. The method includes: (a) generating bias data (56) as a function of model error (66) in an on-board model (38); (b) updating a dynamic inversion algorithm (48) with one or more model terms (58) generated by the on-board model (38); (c) generating effector equation data (60) by processing reference value data (54) with the updated dynamic inversion algorithm (48), which effector equation data (60) is indicative of one or more goal equations and one or more limit equations, and which reference value data (54) is indicative of one or more goal values and one or more limit values and is determined as a function of predicted parameter data (62); (d) at least partially adjusting at least one of the reference value data (54) and predicted parameter data (62) for the model error (66) using the bias data (56); and (e) generating one or more effector signals (30) by processing the effector equation data (60) with an optimization algorithm.

IPC 8 full level

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